



SEQUENCE LISTING

(1) GENERAL INFORMATION

- (i) APPLICANT: Lezdey, John
Lezdey, Darren
Kronis, Anne
- (ii) TITLE OF INVENTION: DNA FOR EXPRESSION OF ALPHA
1-ANTITRYPSIN IN METHYLOTROPIC
YEAST
- (iii) NUMBER OF SEQUENCES: 8
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: John Lezdey & Associates
 - (B) STREET: 2875 MCI DRIVE
 - (C) CITY: PINELLAS PARK
 - (D) STATE: FLORIDA
 - (E) COUNTRY: U.S.A.
 - (F) ZIP: 33782
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: CD-R
 - (B) COMPUTER: Hewlett Packard
 - (C) OPERATING SYSTEM: WINDOWS 2000
 - (D) SOFTWARE: Microsoft Word
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: 10/672,177
 - (B) FILING DATE: 9/26/2003
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 09/529,401
 - (B) FILING DATE: 3/15/2000
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Lezdey, John
 - (B) REGISTRATION NUMBER: 22,735
 - (C) REFERENCE/DOCKET NUMBER: 1435-1

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (727) 456-2585
(B) TELEFAX: (727) 456-2589

(2) INFORMATION FOR SEQ ID NO: 1

(i) SEQUENCE CHARACTERISTICS

(A) LENGTH: 32
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: DNA (Genomic DNA)

(iii) HYPOTHETICAL: No

(iv) ANTI-SENSE: No

(vi) ORIGINAL SOURCE

(A) ORGANISM: HUMAN

(ix) FEATURE:

(C) IDENTIFICATION METHOD: gene scan

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
CTC GAG AAG AGA GAG GAT CCC CAG GGA GAT GC 32

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 32
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: DNA (Genomic DNA)

(iii) HYPOTHETICAL: No

(iv) ANTI-SENSE: No

(vi) ORIGINAL SOURCE

(A) ORGANISM: HUMAN

(ix) FEATURE:

(C) IDENTIFICATION METHOD: gene scan

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
GC GGC CGC TTA TTT TTG GGT GGG ATT CAG CAG 32

(2) INFORMATION FOR SEQ ID NO: 3

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 24
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: DNA (Genomic DNA)

(iii) HYPOTHETICAL: No

(iv) ANTI-SENSE: No

(vi) ORIGINAL SOURCE

(C) ORGANISM: HUMAN

(ix) FEATURE:

(D) IDENTIFICATION METHOD: gene scan

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
CAG AAG ACA GAT ACA TCC CAC CAT 24

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 22
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE

- (D) TOPOLOGY: UNKNOWN
- (ii) MOLECULE TYPE: DNA (Genomic DNA)
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE
- (A) ORGANISM: HUMAN
- (ix) FEATURE:
- (B) IDENTIFICATION METHOD: gene scan
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
AGG ATT TCA TCG TGA GTG TCA G

22

(2) INFORMATION FOR SEQ ID NO: 5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 24
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: UNKNOWN
- (ii) MOLECULE TYPE: DNA (Genomic DNA)
- (iii) HYPOTHETICAL: No
- (iv) ANTI-SENSE: No
- (vi) ORIGINAL SOURCE
- (A) ORGANISM: HUMAN
- (ix) FEATURE:
- (B) IDENTIFICATION METHOD: gene scan
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
TAC TCA AGG GAA AAT TGT GGA TTT

24

(2) INFORMATION FOR SEQ ID NO: 6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: DNA (Genomic DNA)

(iii) HYPOTHETICAL: No

(iv) ANTI-SENSE: No

(vi) ORIGINAL SOURCE

(A) ORGANISM: HUMAN

(ix) FEATURE:

(B) IDENTIFICATION METHOD: gene scan

**(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
AGC TTC TTA CAG TGC TGG ATG TTA**

24

(2) INFORMATION FOR SEQ ID NO: 7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: DNA (Genomic DNA)

(iii) HYPOTHETICAL: No

(iv) ANTI-SENSE: No

(vi) ORIGINAL SOURCE

(A) ORGANISM: HUMAN

(ix) FEATURE:

(B) IDENTIFICATION METHOD: gene scan

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
GTT CAA CAA ACC CTT TGT CTT CTT

24

2) INFORMATION FOR SEQ ID NO: 8:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 24
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: UNKNOWN

(ii) MOLECULE TYPE: DNA (Genomic DNA)

(iii) HYPOTHETICAL: No

(iv) ANTI-SENSE: No

(vi) ORIGINAL SOURCE

(A) ORGANISM: HUMAN

(ix) FEATURE:

(B) IDENTIFICATION METHOD: gene scan

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
GGG AGA CTT GGT ATT TTG TTC AAT

24